

General Description : Five-valve (including rectifier), three-waveband superheterodyne table receivers. These models are identical in every respect except cabinets: 500, wooden cabinet; 501, moulded cabinet. Released: 500, May 1950; 501, June 1950. Prices: 500, £15 2s. 9d. (plus tax); 501, £12 19s. 6d. (plus tax).

Power Supply : A.C. mains, 200-255 volts, 40-100 c/s. (three adjustment tappings). Consumption approximately 40 watts.

Wavebands : S.W. 19-5.8 Mc/s. (15.8-51.3 m.); M.W. 1605-520 kc/s. (187-575 m.); L.W. 320-146 kc/s. (940-2050 m.).

Intermediate Frequency : 470 kc/s.

Valve Analysis : For alternative types see "Notes" below.

Valve	Anode Volts	Anode Current (mA.)	Screen Volts	Screen Current (mA.)	Cathode Volts
V ₁ 7S7 (osc.)	208	3	80	3.4	—
	96	3.2	—	—	—
V ₂ 7B7	204	10	80	2.3	—
V ₃ 7C6	46	2	—	—	—
V ₄ 7C5	268	32	202	2.5	9
V ₅ 7Y4	250 A.C.	29 (each)	—	—	280

Dial Light : 6.5 volts, 0.3 amp. M.E.S. fitting.

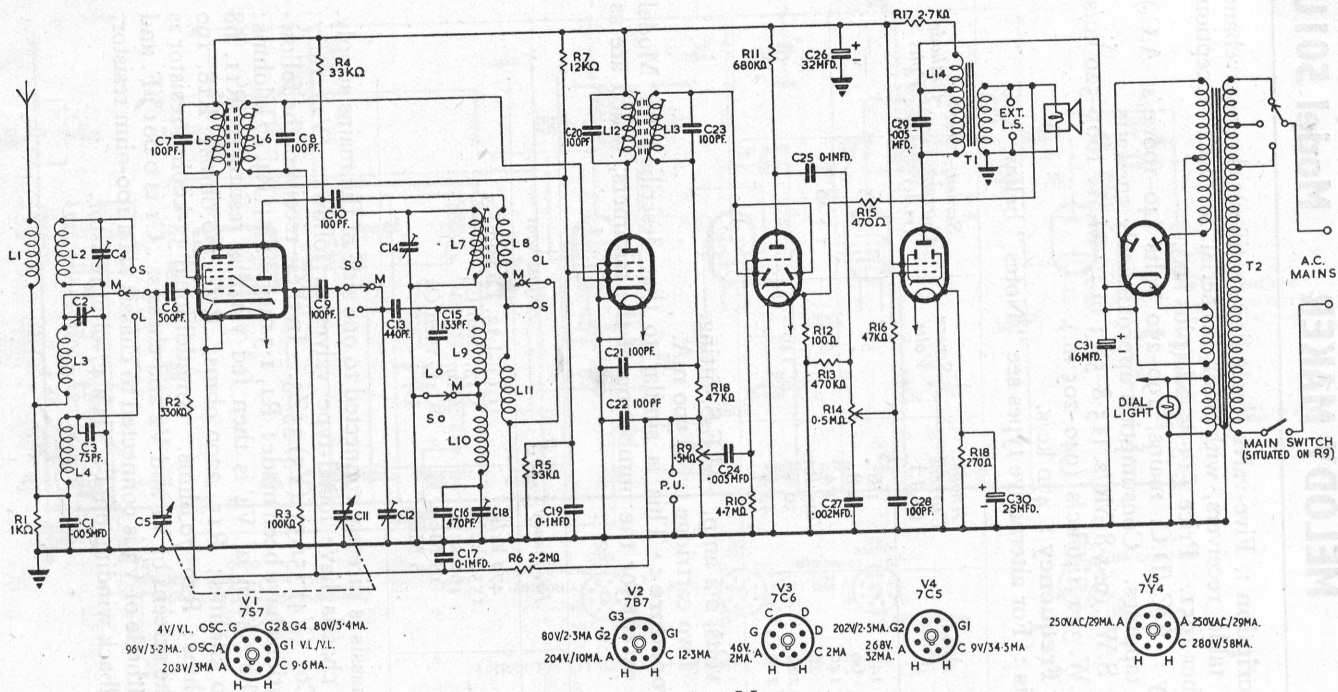
Alignment Procedure : This is similar to that described for Model 502 (page 302), except for the numbering of the trimmers, which are as given below:

Range	Frequency	Adjustment
I.F.	470 kc/s.	L ₁₃ , L ₁₂ , L ₆ and L ₅
M.W.	1550 kc/s.	C ₁₂ , then C ₂
L.W.	160 kc/s.	C ₁₈
S.W.	18 Mc/s.	C ₁₄ , then C ₄
	6 Mc/s.	L ₇

Notes : Some receivers are fitted with 8A valves as follows: (V₁) 62TH; (V₂) 62VP; (V₃) 62DDT; (V₄) 67PT; (V₅) 66KU. On these models R₃ is 18 kilohms and R₁₈ is 180 ohms.

Some receivers use an octal range as follows: (V₁) OM₁₀; (V₂) OM₆; (V₃) OM₄; (V₄) 6V6GT; (V₅) 6X₅G. In these chassis R₁₃ is 270 kilohms, R₁₁ 100 kilohms and C₂₅ is 0.01 μF.

In a few models the loctal range is used with the exception of V₄, which is replaced by an octal-based 6V6GT. There are no circuit variations in this case.



CIRCUIT DIAGRAM—COSSOR MODELS 500, 501

D.C. Resistance of Inductors.

- L1 Very low
- L2 Very low
- L3 3.5 ohms
- L4 13.5 ohms
- L5 9 ohms
- L6 9 ohms
- L7 Very low

- L8 2.5 ohms
- L9 2.8 ohms
- L10 7.5 ohms
- L11 5.5 ohms
- L12 9 ohms
- L13 9 ohms
- L14 13 ohms

- T1 (Primary) 280 ohms
- (Secondary) Very low
- T2 (Primary) 200-v. tapping 40 ohms
- 220-v. tapping 43.5 ohms
- 240-v. tapping 47 ohms
- (Secondary) H.T. winding 265 + 265 ohms
- Heater windings Very low